

## **Historic, Archive Document**

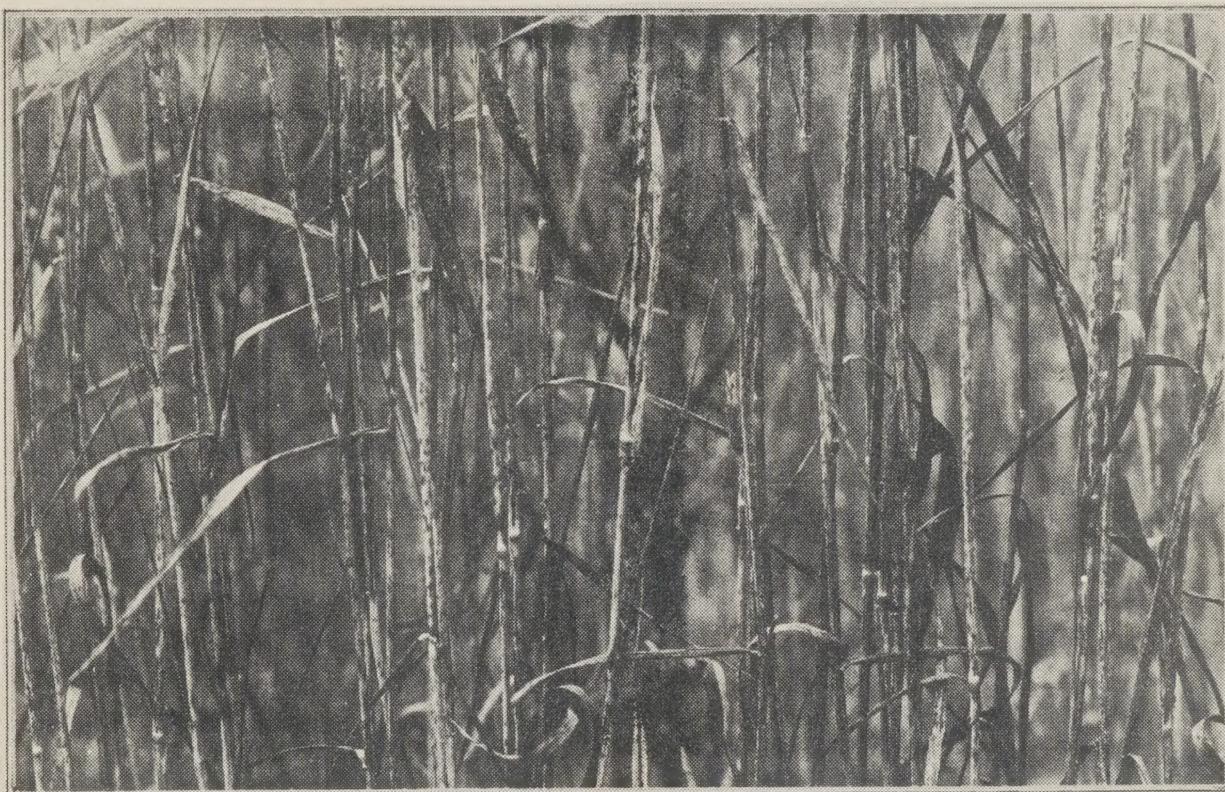
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UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

STEM RUST RUINED THIS FIELD OF GRAIN



There are almost as many kinds of rust as there are plants-- and they are all different. Two kinds are commonly found on wheat. These may be recognized in their red or summer stages by the following:

BLACK STEM RUST

**STEM RUST** is most readily seen on the stems of grain plants about the time the crops begin to mature. The elongated reddish-brown spots (or pustules) caused by the fungus are larger and darker in color than those caused by leaf rust. Stem rust pustules actually rupture the "skin" of the grain plant, and the dust-like spores rub off easily.

ORANGE LEAF RUST

**STEM RUST** should not be confused with the **ORANGE LEAF RUST** which usually appears a little earlier in the season and is confined to the leaves and sheaths of the grain plants. Leaf rust spots (pustules) are small, round in shape, and lighter in color than those caused by stem rust. Leaf rust is most easily seen during the time the grain plants are growing rapidly, becoming less conspicuous as the crop matures and the leaves die.

